

EFFICACY REVIEW

DATE: IN 9- 8-98 OUT 12- 8-98

FILE OR REG. NO. 279-3155

PETITION OR EXP. PERMIT NO. \_\_\_\_\_

DATE DIV. RECEIVED August 25, 1998

DATE OF SUBMISSION August 24, 1998

DATE SUBMISSION ACCEPTED \_\_\_\_\_

TYPE PRODUCT(S): (I,)D, H, F, N, R, S \_\_\_\_\_

DATA ACCESSION NO(S). 446379-01;D249256;S548278;Case#007469;AC:305

PRODUCT MGR. NO. 03-Lewis/Keigwin

PRODUCT NAME(S) Talstar® Nursery Flowable Insecticide/Miticide

COMPANY NAME FMC Corporation, Agricultural Products Group

SUBMISSION PURPOSE Provide performance data in support of claims  
for white grub control in containerized nursery  
plants as a preventative treatment topical drench.

CHEMICAL & FORMULATION Bifenthrin\* 7.9%  
\*Cis/trans isomer ratio:(0.67 lb. active/gallon dilutable liquid)  
Minimum 97% cis, maximum 3% trans

CONCLUSIONS & RECOMMENDATIONS The data presented in EPA Accession  
(MRID) Number 446379-01, having been obtained from standard field  
testing conducted according to the requirements of § 95-5(a)(1)-(5)  
on p. 248 and meeting the standards of § 95-4(b)(2) on p. 247 and  
§ 95-5(b)(11) on p. 249 of the Product Performance Guidelines, are  
adequate to demonstrate the ability of the subject formulation to  
kill larvae of the Japanese beetle, *Popilia japonica*, in the soil  
surrounding containerized nursery plants, *Cotoneaster apiculatus*,  
when applied at a rate of 0.2-0.4 lb. A.I. per 100 gallons as a  
liquid drench, and to continue to provide 100% control of subse-  
quent reinfestation and/or attack for 2 seasons following a single  
application. Since this is one of the several species of larvae  
known as "white grubs", these data are adequate to establish a  
general claim for white grubs when the subject product is applied  
according to label directions to achieve a concentration of ≥10 ppm  
in the treated soil. Even the lowest rate exceeds this concentra-  
tion. It is also noted no phytotoxicity was observed.

RL Vern L. McFarland, IB